

1. A signal transmitter which is connected to a signal receiver via a transmission line, comprising:

    . a time-base compression means for time-base-compressing a first signal;

a multiplexing control signal generator for generating a multiplexing control signal on the basis of a second signal;

a signal multiplexing means for multiplexing the time-base-compressed first signal, the second signal and a third signal, employing the multiplexing control signal generated by the multiplexing control signal generator, and outputting a multiplexed signal; and

a signal transmitting means for transmitting the multiplexed signal and the multiplexing control signal to the signal receiver.

2. A signal transmitter which is connected to a signal receiver via a transmission line, comprising:

a time-base compression means for time-base-compressing a first signal;

a multiplexing control signal generator for generating a multiplexing control signal on the basis of a second signal;

a signal multiplexing means for multiplexing the time-base-compressed first signal, the second signal and a third signal, employing the multiplexing control signal generated by

the multiplexing control signal generator, and outputting a multiplexed signal; and

a signal transmitting means for transmitting the multiplexed signal to the signal receiver.

3. The signal transmitter as defined in Claim 1 or 2, wherein

the first signal is an audio signal, the second signal is a horizontal synchronizing signal or a vertical synchronizing signal, and the third signal is a video signal.

4. A signal transmitter according to DVI transmission standard which transmits RGB video signals as serial data having: a first mode of transmitting the RGB video signals as serial data, and a second mode of transmitting three signals corresponding to a luminance signal, a color difference signal and an audio signal,

the signal transmitter comprising a switching means for switching between the first mode and the second mode.

5. A signal receiver which is connected to a signal transmitter via a transmission line, comprising:

a first receiving means for receiving a multiplexed signal in which a time-base-multiplexed first signal, a second signal, and a third signal are multiplexed, from the signal transmitter;

a second receiving means for receiving a multiplexing control signal from the signal transmitter;

a demultiplexing means for demultiplexing the multiplexed

signal received by the first receiving means into the first and second signals, employing the multiplexing control signal received by the second receiving means; and

a time-base decompression means for time-base-decompressing the first signal obtained by the demultiplexing means.

6. A signal receiver which is connected to a signal transmitter via a transmission line, comprising:

a receiving means for receiving a multiplexed signal in which a time-base-multiplexed first signal, a second signal and a third signal are multiplexed, from the signal transmitter;

a detection means for detecting the second signal from the multiplexed signal;

a multiplexing control signal generating means for generating a multiplexing control signal on the basis of the second signal detected by the detection means;

a demultiplexing means for demultiplexing the multiplexed signal into the first, second and third signals, employing the multiplexing control signal; and

a time-base decomposition means for time-base-decompressing the first signal obtained by the demultiplexing means.

7. The signal receiver as defined in Claim 5 or 6, wherein

the first signal is an audio signal, the second signal is a horizontal synchronizing signal or a vertical synchronizing

signal, and the third signal is a video signal.

8. A signal receiver according to DVI transmission standard which receives RGB video signals as serial data having: a first mode of receiving the RGB video signals as serial data and a second mode of receiving three signals corresponding to a luminance signal, a color difference signal and an audio signal,

the signal receiver comprising a switching means for switching between the first mode and the second mode.